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Pinus Banksiana on the Coast of Maine.

BY EDWARD L. RAND.

This peculiarly northern species has its province thus defined in Professor Sargent's Report on the Forests of North America; "Bay of Chaleur, New Brunswick, to the southern shores of Hudson's Bay, northwest to the Great Bear Lake, the valley of the Mackenzie River, and the eastern slope of the Rocky Mountains between the fifty-second and sixty-fifth degrees of north latitude; south to northern Maine, Ferrisburg, Vt., the southern shores of Lake Michigan and central Minnesota." Gray's Manual credits it to "N. Maine, N. Michigan and Wisconsin, and northward."

In August, 1882, Mr. Frank M. Day, of Philadelphia, showed me an undoubted specimen of this pine which he had found on the summit of Schoodic Mountain, in the town of Gouldsboro, on the eastern side of Frenchman's Bay, a point far to the south of its hitherto accredited province.* Some years passed before it was convenient to gratify my desire of visiting this locality, but in August, 1885, in company with President Eliot of Harvard University, his son, Mr. Charles Eliot, and other friends, I was enabled to accomplish my wish. Landing at a little cove a short distance south of Winter Harbor, Schoodic Mountain lay a mile or more south of us, across a low, thinly wooded, somewhat boggy plain. Wood paths led towards the mountain down along the west coast of Schoodic Peninsula, through groves of spruce. Following one of these paths for about half a mile, we suddenly came upon the object of our search, before reaching the mountain. It was a straight handsome tree of at least twenty feet in height, easily recognized by its peculiar dark green, short foliage, and its abundant curved cones. Other trees were soon seen, both large and small, showing that this pine is not limited to the mountain, but might confidently be expected over the entire peninsula. Proceeding towards the mountain we saw here and there more of it. Crossing a well traveled wood road which apparently traverses the penin-

*The locality at Ferrisburg, Vt., quoted by Professor Sargent above, on the authority of R. E. Robinson, is equally exceptional being in about the same latitude as Schoodic Peninsula. It is well here to add that I have been informed that there is a single tree of *Pinus Banksiana* at Bucksport, Me., on Penobscot River, a few miles below Bangor. I have never verified this statement, however.

sula we reached the gentle northern slope of Schoodic Mountain. Its summit is very similar to the summits of Mt. Desert mountains,—bare rock with thickets of alder, *Viburnum cassinoides* and red oak,—but where I should have looked for dwarfed spruces or for *Pinus rigida*, I found *Pinus Banksiana* instead. Strange, weather-beaten, dwarfed shrubs they were, twisted into many a fantastic shape along the wind-swept summit, and very different from the handsome trees we had seen below. Descending the western cliffs of the mountain we returned to our starting point by a wood path running near the western coast, and here we saw very little of the *Pinus Banksiana*, showing that it is more abundant towards the eastward in the interior of the peninsula.

This unreported coast station of *Pinus Banksiana*, so much farther south than hitherto known, has always had great interest for me in connection with the studies upon the flora of Mt. Desert in which I have for many years been engaged. The locality is separated from Mt. Desert Island by a bay not over five miles in width, yet up to the present time no observer has seen even a single tree of *Pinus Banksiana* upon that island.

***Pinus Banksiana* with *Corema Conradii*.**

BY JOHN H. REDFIELD.

When Mr. Rand a year or two ago mentioned to me the existence of *Pinus Banksiana* upon Schoodic Peninsula, I was very desirous to visit the locality, and on the 24th August last I was enabled to do so in company with Mr. Theodore D. White, a member of the Agassiz Club of New York. At that time I had not the benefit of Mr. Rand's notes as given above, and ignorant of the topography, we were obliged to make our search very much at random. From Winter Harbor we drove by the road which crosses to the *eastern* side of the peninsula and then turns southerly till it terminates in a farm. Long before reaching this terminus we passed through a forest composed almost exclusively of *Pinus Banksiana*, the trees reaching to the height of at least twenty or thirty feet. Occasionally a spruce or arbor vitæ appeared

NOTE.—Since the above was written I have received a letter from Mr. Day, correcting me in one important particular. He states that his specimen of *Pinus Banksiana* came from Prospect Harbor, Goldsboro, a station lying on the eastern shore of the Schoodic Peninsula, not on the western shore where I found this pine. My discovery of it both there and on Schoodic Mountain appears, therefore, to have been the fortunate result of a misunderstanding. Mr. Day's station was evidently somewhere north of the station discovered by Mr. Redfield.